

GRUZDEV, B.

Sep 52

USSR/Metallurgy - Machine Building, Equipment

"New Kinds of Equipment and the Economical Effectiveness of Its Utilization,"  
B. Gruzdev

Za Ekon Materialov, No 2, pp 31-36

States that despite general high tech level of Soviet machine building, there is certain lag in forging and casting technology and in development of manufacture of forging-press and foundry equipment. Suggests revision of such conditions by production of modern machines, such as presses up to 4,000 t capacity; electric furnaces of resistance and induction types; molding machines of 10 t loading capacity; sand blasting machines for core making; and machines for centrifugal, pressure, and permanent mold casting. Recommends conversion from rolling to casting of intricate parts as highly economical measure.

Source #264T54

1. GRUZDEV, B.
2. USSR (600)
4. Metal Industries
7. For greater utilization of rolled metal by interfactory cooperation. Za  
ekon. mat., No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

137-58-2-2888

Gruzdev, B.V.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 98 (USSR)

AUTHOR: Gruzdev, B.V., ...

TITLE: Cutting the Loss of Metal Through Waste in Industry (Puti snizheniya otkhodov metalla v promyshlennosti)

PERIODICAL: V sb.. Rats. ispol'zovaniye struzhki i dr. otkhodov chernykh i tsvetn. metallov. Moscow, Mashgiz, 1956, pp 7-20

ABSTRACT: The metal to be saved by reducing waste comprises the largest reserve of the machine-building industry. There, great losses of metal occur in the forge shops because of the low standards of precision. The utilization of rolled metal by the forge shops averages 40 percent. Of utmost importance in the economical use of metal is precision in the production of billets. Switching from open-die to drop forging more than doubles the utilization of the rolled metal. It is recommended that drop-forging hammers be replaced by mechanical power presses, that periodic-profile billets be cross-rolled, and that machining allowances be reduced. The introduction of precise casting methods will assure a 20 percent saving in metal and will shorten the production process. A prime goal of the machine-building industry in the years immediately ahead should be raising

Card 1/2

137-58-2-2888

*Cutting the Loss of Metal Through Waste in Industry*

the work quality of forge shop and foundry. Powder metallurgy affords opportunities for reducing waste of nonferrous metals. Considerable metal savings are effected also by minimizing the waste in the laying-out operation and by putting it to use. An account is given of cooperation amongst the plants in the utilization of metal scrap. Likewise considered are the possibilities of metal savings by altering suitably the structure of the product pieces, producing rolled metal in more economical shapes, and introducing the use of different structural materials.

V.G.

1. Metals--Waste    2. Metals--Processes

Card 2/2

GRUZDEV, B.V., red.; YUDZON, D.M., tekhn. red.

[Economic use of material resources at L.M.Kaganovich First State Bearing Plant] Ekonomika material'nykh resursov na 1-m Gosudarstvennom podshipnikovom zavode im. L.M.Kaganovicha; sbornik statei. Moskva, Redakts.-izd. sektor GOSSNABA SSSR, 1952. 157 p. (MIRA 16:7)  
(Moscow--Bearing industry)

Country : USSR  
Category : Soil Science. Cultivation. Improvement.  
Erosion. J

Abs Jour : RZhBiol., No 6, 1959, No 24681

Author : Gruzdev, D. M.  
Inst : Kinel' Selection Station.  
Title : Effect of Forest Belts on the Wind Erosion of  
Soils in the Regions beyond the Volga River.  
Orig Pub : Pochvovedeniye, 1957, No. 9, 116-119

Abstract : There were conducted in the winters of 1948-  
1950 investigations of wind erosion of the  
soils in the territory of the Kinel' Selec-  
tion Station, having at its disposal field-  
protecting forest belts and ravine-tree stands.  
The observations indicated that beginning with  
50 meters from the forest belt, the organic  
portion of the eroded particles prevails over

Card : 1/2

Country : USSR  
Category : Soil Science. Cultivation. Improvement.  
              Erosion. J

Abs Jour : RZhBiol., No 6, 1959; No 24681

Author :  
Inst :  
Title :

Orig Pub :

Abstract : the mineral, and content of the free forms of  
P<sub>2</sub>O<sub>5</sub> in the soil increases to the extent of  
withdrawal from the forest stands. -- M. L.  
Yaroshenko

Card : 2/2

GRUZDEV, D.M.

Effect of soil salinity on the growth of oak and other species in  
irrigated areas of the Azerbaijan S.S.R. Pochvovedenie no.3:91-98  
Mr '59.

(MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lesovedstva i  
mekhanizatsii lesnogo khozyaystva.  
(Azerbaijan--Alkali lands) (Azerbaijan--Soils)

GRUZDEV, D. M., Cand Agr Sci -- (diss) "Selection of tree species for protective plantings on the irrigated lands of the Azerbaydzhan SSR." Moscow, 1960. 22 pp; (Moscow Order of Lenin Agricultural Academy im K. A. Timiryazev); 110 copies; price not given; bibliography at end of text (10 entries); (KL, 17-60, 162)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6

GRDINA, Yu. V., BABICH, G. F., GRUZDEV, D. S.,  
PINKHUSOVICH, L. L.

"Study of Kerch Arsenic Rails (Kerchenskikh  
mysh'yakovistykh rel'sov),"

Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk. No. 2, 1941.  
Submitted 30 Sep. 1940

Report U-1530, 25 Oct. 1951

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

Armenia, USSR.

"Study of Kerch Arsenic Rallies (Kerchenskikh mysch'yakovintykh rel'fov)," Iz. Ak Nauk SSSR, Otdel. Tekh. Nauk. No. 2, 1951. Submitted 30 Sep 1946.

Report U-1530, 25 Oct 1951

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6

GRUZDEV, F.F., dotsent (Leningrad)

F.V. Karzhavin, "Russian Doctor". Sov. zdrav. 19 no. 8:75-76 '60.  
(MIRA 13:10)  
(KARZHAVIN, FEDOR VASIL'EVICH, 1745-1812)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

GRUZDEV, G.

Pride of work. Sov.profsociuzny 7 no.21:26-29 N '59.  
(MIRA 12:12)  
(Leningrad--Electric industry workers)

GRUZDEV, German Ivanovich. KAZAKOVA, Ye.D., redaktor; PAVLOVA, M.M.,  
tekhnicheskiy redaktor; BALIUD, A.I., tekhnicheskiy redaktor

[Selecting the location and soil for orchards] Vybor mestopolozheniya  
i pochvy pod sad. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956.  
119 p. (MLRA 10:4)  
(Fruit culture)

GRUZDEV, G.I.

Qualitative soil evaluation on the basis of natural conditions  
favorable for fruit culture. Pochvovedenie no.5:82-86 My '60.  
(MIRA 14:4)

1. Moskovskiy institut inzhenerov zemleustroystva.  
(Soils)  
(Fruit culture)

GRUZDEV, G.P. (Moskva)

Pressor characteristics of hepatic and intestinal blood [with  
summary in English]. Pat.fiziol. i eksp.terap. 1 no.1:31-35  
Ja-F '58. (MIRA 12:1)

1. Nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof.  
P.D. Gorizontov.

(HYPERTENSION, exper.

induced by hepatic & intestinal venous blood  
administered by cross-transfusion in dogs)

GRUZDEV, G.P.

Physiological regeneration of cells of the corneal epithelium in  
irradiated rats. Radiobiologija 1 no.1:52-57 '61. (MIRA 14:7)  
(GAMMA RAYS--PHYSIOLOGICAL EFFECT)  
(REGENERATION (BIOLOGY)) (CORNEA)

GRUZDEV, G.P.

Regeneration in central and peripheral parts of the cornea in  
gamma-irradiated mice. Radiobiologia 1 no.3:407-411 '61.  
(MIRA 14:10)  
(GAMMA RAYS--PHYSIOLOGICAL EFFECT) (CORNEA)  
(REGENERATION (BIOLOGY))

ACCESSION NR: AR4039317

S/0044/64/000/003/V085/V085

SOURCE: Ref. zh. Matematika, Abs. 3V481

AUTHOR: Gruzdev, G. P.; Zakrevskiy, A. D.; Zakharov, V. V.

TITLE: A programming program for the machine "Ural-1"

CITED SOURCE: Tr. Sibirska. fiz.-tekhn. in-ta, vy\*p. 42, 1963, 3-8

TOPIC TAGS: programming program, Ural-1, Strelas BESM, program scheme language variant, argument index, arithmetic operation, code 30A command, parameter algorithm, nucleus

TRANSLATION: The authors discuss certain advantages of the programming program (PP), indicated in the title, compared to analogous operations for computers of the "Strela" type and the BESM. The program translates an algorithm, written on one of the variants of the language of program schemes, into the working program. Formulas are represented in the form of a parenthesis-free entry with an index of the arguments under an arithmetic operation. A general scheme for the PP is cited.

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ACCESSION NR: AR4039317

The author indicates the advantages of using the new command with code 30A, situated in the nucleus K, for obtaining address variables in the presence of algorithms of parameters. The contents of the nucleus with address A is added to the contents of the nucleus K+1, and the result is sent into the register of commands for fulfillment at the next instant of time. A. Krasilov.

DATE ACQ: 22Apr64

SUB CODE: MA

ENCL: 00

Card 2/2

L 11241-63

EWT(1)/EWT(m)/BDS--AFFTC/AMD/ASD--AR/K

ACCESSION NR: AP3001063

S/0205/63/003/003/0389/0392

56

AUTHOR: Gruzdev, G. P.; Fedotova, M. I.; Shcherbova, Ye. N.

TITLE: Certain regularities in marrow wasting in rats injured by gamma radiation 19

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 389-392

TOPIC TAGS: marrow wasting, radiation sickness, quantitative marrow cell count

ABSTRACT: Little is known about the wasting process of blood-forming tissue, especially marrow, in radiation sickness. This study differs from others because it uses a quantitative marrow cell count method to measure wasting. White rats were exposed to a cobalt gamma source in doses of 150, 400, 750, and 5,000 r. Dose power was 290-302 r/min. After exposure marrow cell counts at the hip were made at regular intervals from .5 hr to 72 hrs. Results are summarized in Figs. 1 and 2. Marrow wasting, it was found, can be divided into three phases. The first phase lasts 4 hrs and the number of cells does not change. The second phase lasts 2-3 hrs and the number of cells decreases depending on radiation dose (in the range from 400 to 5,000 r the dependence can be expressed by a power function). The third phase has a duration depending on radiation dose and the number of cells also decreases according to the same power function except for the 150 r dose. For

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ACCESSION NR: AP3001063

small dose radiation (150-400 r) the second phase is most important because 52% to 77% of the total decrease in number of cells takes place. For large dose radiation (750-5,000 r) the second and third phases are of nearly equal importance because decrease in the number of cells is about 51% to 60% in the second phase and 49% to 40% in the third phase. Orig. art. has: 2 figures, 4 formulas.

ASSOCIATION: none

SUBMITTED: 08Feb62

DATE ACQD: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF Sov: 004

OTHER: 002

ch / Wm  
Card 2/2

S/241/63/008/002/004/006  
D243/D307

AUTHORS: Gruzdev, G.P., Yevseyeva, N.K., Rozhdestvenskiy,  
L.M., Fedotova, M.I. and Shcherbova, Ye.N.

TITLE: Disturbance of cell regeneration in the bone marrow  
of rats exposed to ionizing radiation

PERIODICAL: Meditsinskaya radiologiya, v. 8, no. 2, 1963, 35-41

TEXT: The above problem was studied in view of lack of publications concerned with the effect of radiation on the bone marrow. The animals were exposed to whole-body  $\gamma$ -irradiation at 305 r/min, the total dose being 400 r. The rats were then decapitated on the 1st, 3rd, 5th, 7th, 9th, 15th, 20th and 30th day after irradiation and the mitotic index, the development of chromosome observations, the total content of myeloid cells and individual cellular regenerations in the bone marrow were measured. The mitotic index fell sharply on the 1st day and then rose rapidly to a maximum on the 7th day; a second shallow minimum on the 15th day was then followed by a gradual rise. The number of cells of the bone marrow

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S/241/63/008/002/004/006

D243/D307

Disturbance of cell regeneration ...

was not however fully related to the above changes. Chromosome aberrations rose sharply on the 1st day after irradiation and then rapidly decreased, with a slight maximum on the 7th day. The mitotic activity of erythropoietic cells showed a sharp rise from the 3rd day after dosing, indicating regeneration of these cells. It is concluded that the myeloid cells of the bone marrow, which divided with manifestation of chromosome aberrations, gave rise to non-viable daughter cells and perished rapidly. There are 1 figure and 3 tables.

Card 2/2

GRUZIEV 5/6

CCCP/Lawns and Weed Control

Abz Jour : Ref Zhur - Biol., N° 9, 1956, No 39994

Author : Gruzhev G.M.

Inst :

Title : The Influence of Deep Plowing on the Field and Garden Thistles.

Orig Pub : Znaleznikiye, 1957, N° 1, 82-83

Abstract : A deep cultivation (28-30 cm) of leached chernozem soil, covered by thistles (about 796 thousand on 1 ha) causes the shift of this plant and its intensive growth in the upper soil layers. This facilitates its destruction during the following shallow soil cultivation. -- S.A. Nikitin.

Card : 1/1

USSR/Weeds and Weed Control.

N.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 68451

Author : Gruzdev, G.S.

Inst : Moscow Agricultural Academy imeni K.A. Timiryazev

Title : Methods of Calculating Weed Infestation and Their Application.

Orig Pub : Dokl. Mosk s.-kh akad. im. K.A. Timiryazeva, 1957, No 28,  
71-77.

Abstract : It is recommended that the moving and stationary methods of calculating the amount of weed in crop sowings be employed. Using the first method, a visual estimation is made of the weed infestation in the fields growing the principal crops of the rayon. In the second method, the weeds are calculated on all the fields of 8-10 farms. The data derived from visual estimation must be .

Card 1/2

GRUZDEV, G.S., kand. sel'skokhozyaystvennykh nauk; YAKOVLEV, A.P.,  
kand. sel'skokhozyaystvennykh nauk; ARTYUSHIN, A.M., agronom

Corn cultivation in Moscow Province. Zemledelie 6 no.4:50-54  
Ap '58. (MIRA 11:4)  
(Moscow Province--Corn (Maize))

GruZhev, G.S., kand. sci'skokhozyaystvennykh nauk, dotsent; TULIKOV, A.M.,  
aspirant

Cultivation practices and chemical measures for controlling off-set weeds. Izv. TSKHA no.3:23-38 '61. (MIRA 14:9)  
(Weed control)

~~GRUZDEV, G.S.~~, kand. sel'skokhozyaystvennykh nauk, dotsent;  
BEZUGLOV, V.G., aspirant

Effective method for weed control in corn fields on  
turf-Podzolic soils. Izv. TSKHA no.3:25-33 '62.

(MIRA 15:9)

(Moscow Province--Weed control)  
(Moscow Province--Corn (Maize))

GRUZDEV, G.S., dotsent, kand. sel'skokhoz. nauk; TULIKOV, A.V., assistant

Increasing the effectiveness of chemical weed control in  
grain fields. Izv. TSKHA no.1:136-148 '64.

(MIRA 17:4)

1. Kafedra zemledeliya Moskovskoy ordena Lenina sel'skokhozyay-  
stvennoy akademii imeni Timiryazeva.

ACCESSION NR: AT4044486

S/0000/64/000/000/0029/0034

AUTHOR: Gruzdev, G. T., Fedotova, M. I., Shcherbova, Ye. N.

TITLE: Disruption of the processes of bone marrow regeneration

SOURCE: Vosstanovitel'nye protsessy pri radiatsionnykh porazheniyakh (Recovery from radiation injuries); sbornik statey. Moscow, Atomizdat, 1964, 29-34

TOPIC TAGS: radiation sickness, hematopoiesis, bone marrow, bone marrow regeneration, mitosis, chromosome aberration

ABSTRACT: The cellularity, mitotic index and chromosomal aberrations in the bone marrow were studied in male Wistar rats, irradiated with  $\gamma$ -rays from  $\text{Co}^{60}$  in doses of 150, 400, 750 and 5000 r at an intensity of 290 r/minute. The results showed marked changes in the quality and quantity of actively dividing cells. These changes were especially acute in the first few hours after irradiation. With an increase in the radiation dose, there was an increase in both depression of cell division and the level of chromosomal aberrations. There was an exponential decrease in the number of cells in the bone marrow, starting 7 hours after irradiation with a dose of 5000 r and continuing until death; there was also complete suppression of cell division at that dose. At doses

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ACCESSION NR: AT4044486

of 400 and 750 r, the same decrease in cellularity was observed, although there was fairly active cell division. The authors conclude that all types and maturation stages of bone marrow cells are equally susceptible to radiation, and that the prevention of bone marrow regeneration is due mainly to qualitative disruption of cell division, as expressed by chromosomal aberrations. On the basis of further analysis, the authors divide the dynamics of chromosomal aberrations into 3 phases regardless of the irradiation dose. The first or plateau phase lasts about 18-24 hours. The next phase involves a sharp decrease in chromosomal aberrations lasting 48 hours, followed by a prolonged "tail". Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 29Jan64

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

Card 2/2

GRUZLEV, I. A.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Resonance Overvoltages on Transmission Lines during Nonsymmetric Short Circuits." 8 March 1954. An examination is made of resonances of highest harmonics in correct and distorted phases during different types of unsymmetric short circuits. A procedure is given for determining the conditions of resonance of the highest harmonics and of calculating resonance overvoltages. An experimental investigation was made of resonance overvoltages using an electrodynamic model of electrical transmission. The resonances which lead to most dangerous overvoltages in electrical transmissions are pointed out.

SO: M-1048, 28 Mar 56

GRUZDEV, I. A.,

"Operating Conditions of a system for Controlling Excitation of Generators for Long-distance Transmission," with Abramyan, Sh. G., and Levinshteyn, M. L., p 162.

"Effect of Automatic Control of Generator Excitation on Dynamic Stability of Long-distance Transmission," with Abramyan, Sh. G., Gruzdev, I. A., Levinshteyn, M. L., and Shcherbachey, O. V., p. 120.

"Self-excitation of Compensated Synchronous Condensers and Methods of Elimination," with Levinshteyn, M. L., and Papp, A. page 187.

"Electrodynamic Models at the TVN LPI Laboratory (High-voltage Laboratory of the Leningrad Polytechnic Institute) for Investigating Stability and Internal Over-voltage in Long-distance Electric Transmission," with Leginshteyn, M. L., Chernyayev, I. V., and Shcherbachey, O. V. page 201.  
High Voltage Technique, Moscow, Gosenergoizdat, 1958, 664pp  
(Series: LPI. Trudy, No. 15)

This collection of articles sums up the principal results of investigations and studies made by Prof. A. A. Gorev, Dr. Tech. Sci., and his staff in the field of high voltage phenomena and techniques at LPI (Leningrad Polytech. Inst.). It was at this institute that Prof. Gorev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of Min of Higher Education, the High-Voltage Lab at LPI was named after A. A. Gorev.

"Resonance Overvoltages in Electric Transmission Lines During Unsymmetrical Short Circuits," with Gribov, A. N., Levinshteyn, M. L., page 265.

High Voltage Technique, Moscow, Gosenergoizdat, 1958, 664pp  
(Series: EP Trudy, No. 1.5)

This collection of articles sums up the principal results of investigations and studies made by Prof. A. A. Gorev, Dr. Tech. Sci., and his staff in the field of high voltage phenomena and techniques at LPI (Leningrad Polytech Inst.). It was at this institute that Prof. Gorev completed his higher scientific education and then taught and carried on his investigations in the field until his death in 1953. In 1956, by decree of Min of Higher Education, the High-Voltage Lab. at LPI was named after A. A. Gorev.

AUTHORS: Gruzdev, I. A., Docent, Candidate of Technical Sciences, Levinshteyn, M. L., Docent, Candidate of Technical Sciences S/105/60/000/03/001/023  
B007/B008

TITLE: The Use of Analog Computers for the Investigation of Transients in Electric Systems

PERIODICAL: Elektrichestvo, 1960, Nr 3, pp 1 - 14 (USSR)

ABSTRACT: This is an investigation of mathematical simulation with analog computers. Specific characteristics occurring when solving problems of electric power engineering are also clarified. The basic elements of analog computers are described first. The computing elements necessary for solving linear and nonlinear differential equations as well as the basic circuit schemes are given. Some demands made on analog computers in the solution of electric power engineering problems, are indicated next. This is illustrated on the example of the solution of equations for transients in a synchronous machine with salient poles which operates parallel to a system with infinite output. It is pointed out that the

Card 1/4

The Use of Analog Computers for the Investigation S/105/60/000/03/001/023  
of Transients in Electric Systems B007/B008

transition from one system of equations to another has to take place according to a given timing program for some tasks, while this transition depends on the solutions obtained for other tasks. The one as well as the other is demanded for some tasks. A sufficiently developed program control of the transition from one system of equations to be solved to the other is not yet provided so far in the analog computers now produced in the USSR. Besides, the number of computing elements in most machine types is insufficient for solving practical problems. The analog computers can in fact be applied for the solution of rather complicated tasks of electric power engineering, but they must not be considered as a universal means for the solution of random problems occurring in practice. The most rational field of application for analog computers is that where a variation of the parameters of individual system elements and of the nonlinear characteristics of this system is demanded, but the system itself must not be too complicated. When investigating the

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The Use of Analog Computers for the Investigation of Transients in Electric Systems S/105/60/000/03/001/023  
B007/B008

stability of electric networks, the circuit with 3 stations and 2 to 3 loading points, for example, is the most complicated one that can be investigated on an analog computer. For the solution of various tasks connected with this circuit there is however a possibility of analyzing the excitation control, the control of the primary motors, the influence of the damping windings, the load characteristics, the saturation of the machine and others. This is analogously the case when investigating internal excess voltages. The most rational method for the investigation of a random problem is an extensive utilization of all available means, such as physical simulators, computers, computer boards, the investigation under actually prevailing conditions and others. The possibilities of analog computers are by no means exhausted. The individual elements must be improved and rational methods for the solution of various types of equations must be developed. The equations by A. A. Gorev (Ref 1) are mentioned. There are 11 figures, 1 table, and 29 Soviet references.

Card 3/4

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The Use of Analog Computers for the Investigation  
of Transients in Electric Systems S/105/60/000/03/001/023  
B007/B008

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. Kalinina  
(Leningrad Polytechnic Institute imeni Kalinina)

SUBMITTED: May 27, 1959



Card 4/4

GRUZDEV, I.A., VENIKOV, V.A., SOKOLOV, N.I., KUCHUMOV, A., LUGINSKIY, YA.N.

"Analogue computer application for analysis of transient processes  
in electrical systems."

Report to be submitted for the 19th Biennial Session, Intl. Conf. on  
Large Electric Systems(CIGRE), Paris, France, 16-26 May '62.

VENIKOV, Moscow Power Engineering Inst. im V.M. Molotov

SOKOLOV, " " " " "

GRUZDEV, Leningrad Polytechnical Inst. im M.I. Kalinin

KUCHUMOV, none given

LUGINSKIY, All-Union Scientific Research Inst. Electro Power Engineering

KLIMOV, A.N., otv. red.; GRUZDEV, I.A., red.

[Electric power engineering; studies of post graduate  
students and degree candidates] Elektroenergetika; uche-  
nye zapiski aspirantov i soискателей. Leningrad, 1963.  
(MIRA 17:12)  
124 p.

1. Leningrad. Politekhnicheskiy institut.

GRUZDEV, I.A., kand.tekhn.nauk; MAKSIMOV, Yu.A., inzh.; ROKHINSON, O.Z., inzh.

Effect of the characteristics of excitation systems and parameters  
of large hydrogenerators on their dynamic stability. Izv. vys.  
ucheb. zav.; energ 6 no.7-1-6 Jl '63. (MIRA 16:8)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina  
(for Gruzdev, Maksimov). 2. Leningradskoye otdeleniye Gosudarstvennogo  
proyektchnogo instituta po izyskaniyu i proektirovaniyu gidroelektro-  
stantsiy i hidroenergouzlov (for Rokhinson).  
(Turbogenerators)

GRUZDEV, I. A., dotsent; TIKKEL', A. S., inzh.

Effect of self-synchronization and automatic reclosing of hydrogenerators on the dynamic stability of the system.  
Izv. vys ucheb zav: ~~energ~~ 7 no. 1:1-6 Ja '64. (MIRA 17:5)

1. Leningradskiy politekhnicheskiy institut imeni M. I. Kalinina. Predstavlena kafedroy elektricheskikh sistem i setey.

GRUZDEV, I. V., s. ekspertivnyi t. n. "Energo", Kirovograd, 210000  
KUTAEV, V. N., nauchniy rukovoditeli, 210000, Tver  
Natanovich, FORTOV, Marilen Grigor'evna, 210000, Nizhny  
Ivanovskiy, NIKOLAYEVA, N. I., red.

use of analog computers in electric power systems;  
methods for studying transient processes; Primenenie  
analogov vychislitel'nykh mashin v energeticheskikh  
sistemyakh; metody issledovaniya perekhodnykh protsessov.  
(By) I. V. Gruzdev i dr. Moscow, Energia, 1966. 400 p.  
(M) (18;2)

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CIA-RDP86-00513R000617120017-6

AYZENBERG, B.L.; ALEKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; DOMANSKIY, B.I.;  
DUBINSKIY, L.A.; ZALESSKIY, A.M.; KOSTENKO, M.P.; KOSTENKO, M.V.;  
LEVINSHTEYN, M.L.; MIKIRTICHEN, A.A.; MIKHAYLOVA, V.I.; NEYMAN, L.R.;  
RUZIN, Ya.L.; SMIRNOV, V.S.; STEFANOV, K.S.; USOV, S.V.; KHOBERG, V.A.;  
SHCHERBACHEV, O.V.

Professor M.D.Kamenskii; on his 80th birthday. Elektrichestvo no.7;  
92-93 Jl '65. (MIRA 18:7)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6

GRUZDEV, I.A.; ZEKKEI', A.S.; KOSTELYANETS, V.S.

Study of transients in a system with limited power during switching-in of hydrogenerators by means of high-speed automatic reclosing of self-synchronization. Trudy LPI no.242:125-130 '65.  
(MIRA 18:8)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

L 22149-66

ACC NR: AP6012968

SOURCE CODE: UR/0143/65/000/007/0130/0131

AUTHOR: Smirnov, V. S.; Kostenko, M. P.; Neyman, L. R.; Kostenko, M. V.; Domanskiy, B. I.; Zalesskiy, A. M.; Usov, S. V.; Ayzenberg, B. L.; Dubinskij, L. A.; Aleksandrov, G. N.; Gribov, A. N.; Gruzdev, I. A.; Levinshteyn, M. L.; Mikirtichev, A. A.; Mikhaylova, V. I.; Ruzin, Ya. L.; Stefanov, K. S.; Khoberg, V. A.; Shcherbachev, O. V.

ORG: none

TITLE: Honoring the 80th birthday of Mikhail Davidovich Kamenskiy

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 7, 1965, 130-131

TOPIC TAGS: electric power engineering, electric engineering personnel, hydroelectric power plant, thermoelectric power plant

ABSTRACT: On 19 April 1965 Prof. Dr. Techn. Sci. Mikhail Davidovich Kamenskiy celebrated his 80th birthday and the 55th anniversary of his active work as a power expert. Mikhail Davidovich is a 1909 graduate of the Petersburg Polytechnic Institute - since his graduation he has been associated with this institute, now renamed Leningrad Polytechnic Institute, as an instructor. He is a major scientist and specialist in electric power grids and systems. He has been a major contributor to the establishment of the Leningrad Power Grid and various large thermal and hydro-

Card 1/2

L 22149-66  
ACC NR: AP6012968

electric power stations and an active participant in the design and construction of high- and low-voltage power systems in many cities of the Soviet Union. During the Siege of Leningrad in World War II he was a member of the Municipal Party Defense Committee. Since the war Mikhail Davidovich has been head of the Chair of Electric Power Grids and Systems at the Leningrad Polytechnic Institute and has been working on the methods of calculating the economic regimes of power system operation and on the problems of the present-day development of urban power systems. M.D. Kamenskiy has published more than 80 works, including both original studies as well as textbooks that are popular in the Soviet Union and abroad. He is the chairman of the Section on Power Systems and Grids under the Leningrad Division of the Scientific and Technical Division of the Power Industry and organizer of and participant in many scientific-technical conferences and meetings. His merits as an educator of a new school of Soviet power engineers are equally large. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Cord 2/2 d/a

ACC NR: AM5011709

MONOGRAPH

UR

Gruzdev, Igor' Aleksandrovich; Kadomskaya, Kira Pantoleimonovna; Kuchumov, Leonid  
Aleksandrovich; Luginiskiy, Yukov Natanovich; Portnoy, Marlen Gdalevich; Sokolov,  
Nikolay Ivanovich

16

Using analog computers in power systems; methods for analyzing transient processes  
(Primeneniye analogovykh vychislitel'nykh mashin v energeticheskikh sistemakh;  
metody issledovaniy perekhodnykh protsessov) Moscow, Izd-vo "Energiya", 1964.  
407 p. illus., biblio. 5,000 copies printed.

TOPIC TAGS: analog computer, electromagnetism, electric engineering, electric power  
engineering, mathematic model, computer circuit, computer application, ~~etc.~~

PURPOSE AND COVERAGE: This book is concerned with the application of analog computers  
to the study of electromechanical and electromagnetic transient processes in power  
systems. It presents methods for mathematical modeling, circuits for special-purpose  
devices used in general-purpose computer studies, and examples of completed investi-  
gations. The book is intended for engineers at scientific research and planning  
institutes, workers at power systems, and students taking advanced courses in electric  
power and electromechanics.

TABLE OF CONTENTS [abridged];

Foreword -- 3

Card 1/2

UDC: 681.142.33/.34:620.9

ACC NR: AM5011709

- Ch. I. Basic decision elements of analog computers -- 5
- Ch. II. Special-purpose units of analog computers -- 62
- Ch. III. Equations of the basic elements of an electric system and mathematical modeling -- 106
- Ch. IV. Modeling of a complex system containing several generators and loads -- 171
- Ch. V. Analog-computer solutions of equations of transient processes in excitation systems and controllers of primary motor generators -- 209
- Ch. VI. Analog computer study of transient processes in power systems -- 260
- Ch. VII. Application of analog computers to the calculation of system-generated overvoltage in electric systems -- 346

SUB CODE: 09,13,20/ SUBM DATE: 31Oct64/ SOV REF: 083/ OTH REF: 001

Card 2/2

GRUZDEV, I.A.; KUCHUMOV, L.A.; MAKSIMOV, Yu.A.

Mathematical modeling of networks with rectifying components.  
Trudy LPI no.242:67-74 '65. (MIRA 18:8)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6

GRUDEN, I.A.; MULAY, I.A.; POKORNÝ, V.I.

Mathematical modeling of an asynchronous load. Trudy IITI no.242:13-  
14. 1965. (MIRA 18:8)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

SMIRNOV, V.S.; KOSTENKO, M.P.; NEYMAN, L.R.; KOSTENKO, M.V.; DOMANSKIY,  
B.I.; ZALESSKIY, A.M.; USOV, S.V.; AYZENBERG, B.L.; DUBINSKIY,  
L.A.; ALEKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; LEVINSHTEYN,  
M.L.; MIKIRTICHEV, A.A.; MIKHAYLOVA, V.I.; RUZIN, Ya.L.; STEFANOV,  
K.S.; KHOBBERG, V.A.; SHCHERBACHEV, O.V.

M.D. Kamenskii; on his 80th birthday. Izv. vys. ucheb. zav.;  
(MIRA 18:9)  
energ. 8 no.7:130-131 Jl '65.

1. KUTIN V, A. I.: G.U.M. A. I. K.
2. USSR (600)
4. Electric Transformers - Repairing
7. Repair of high-voltage current transformer model TPF. Torf. prom.  
29 no. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

GRUZDEV, K.

Centralization system; new developments in the operation of  
freight yards. Avt. transp. 38 no. 5:57 My '60. (MIRA 14:2)

1. Zamestitel' nachal'nika stantsii Kirov po gruzovoy rabote.  
(Transportation, Automotive—Freight)

G. V. KAR'YAKOV

"The Role of Afferent Impulses in the Integration of Respiration: General Variations in the Respiratory Motor Nerves in Response to Local Irritation of the Upper Respiratory Channels," Fiziol. Zhur. SSSR, 34, No 3, 1948.

Physiology Institute, Department of Medicc-Biological Science, AS Med. Sci., USSR.

GRUZDEV, K.D.

Physiologically optimal forms of electric stimulation and the prospects for their therapeutic use in relation to the development of electronics. Vop. kur. fizioter. i lech. fiz. kul't. 28 no. 5: 398-402 S-O '63. (MIRA 17:9)

1. Iz fiziologicheskoy laboratorii (zav. A.I. Zol'nikova) eksperimental'nogo otdela (zav. F.B. Vasilenko) TSentral'nogo instituta kurortologii i fizioterapii.

GRUZDEV, L.V. [deceased], LIKHACHEV, G.N.

Material on the feeding of *Strix aluco* in the "Tula Fellings"  
Preserve. Zool. zhur. 39 no. 4:624-627 Ap '60. (MIRA 13:11)

1. Prioksko-Terrasny Preserve.  
(Tula Province--Owls)

G. UZDEV, M. I.

Rukovodstvo k bystroj podborkie shesteren dlja nariezki vintov na tokarnykh stankakh. Krasnoiarsk, 1901. 34 p.

Manual on rapid selection of gears for screw threading on lathes.  
DLC: Unclass.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

1945 May, .

The primary role of the Soviet tank industry • . . . .

Tankist. 12, 1948.

APRELEV, V.P., kand. voyenno-morskikh nauk, kapitan 2-go ranga;  
GRUZDEV, N.M., kapitan 2-go ranga

A useful manual on navigation. Mor. sbor. 48 no.6:89-92 Je '65.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6

GRUZDEV, N.S., inzh.

Notes on P.M. Chernilovskaya's article. Svetotekhnika & no.1:29-30  
Ja '58. (MERA 11:1)

(Fluorescent lamps)  
(Chernilovskaya, P.M.)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

GRUZDEV, N. S., inzh.

Concerning V. N. Mikhaleva's article "Electric lighting in  
industrial buildings having no windows or skylights." Svetotekhnika  
S no. 9:24 S '62. (MIRA 15:10)

1. Gosudarstvennyy proyektnyy institut No. 1 pri Tserossiyskom  
sovete narodnogo khozyaystva.

(Electric lighting)

PASHCHENKO, N.Ye., laureat Stalinskoy premii; GRUZDEV, P.Y., redaktor  
NOVOKRESHCHENOV, B.I., redaktor; KRINOCHINA, T.V., tekhnicheskiy  
redaktor

[Mitte-Installer for central heating, sewerage, water and gas  
pipes] Slesar' po montazhu vnutrennikh sistem tsentral'nogo  
otopleniya, kanalizatskii, vodoprovoda i gazoprovoda. Moskva,  
Vses.uchebno-pedagog.izd-vo trudoperevodat, 1951. 186 p.  
(Plumbing) (MLRA 8:10)

GN ZDEV, F. F.

USSR/Chemistry

Card 1/1

Authors : Grushev, F. F.  
Title : Characteristic frequencies of alkenes  
Periodical : Zhur. fiz. Khim. 28, Ed. 3, 507-512, 1957  
Abstract : This report is devoted to the interpretation of alkene spectra and the formulation of rules regarding diffusion spectra of alkene molecules and above all to the establishment of their characteristic frequencies. This was solved by comparing the spectra of various molecules with various combinations of bonds and angles. Table showing the characteristic frequencies of alkanes is included. This table makes it possible to analyze individual substances by their spectrum. Also given are the frequencies which determine the orientation of the double bond in the chain of carbon atoms.  
Institution : The Leningrad Industrial Institute  
Submitted : June 16, 1953

80561

S/051/60/008/06/022/024  
E201/E691

5.4130

AUTHORS: Grudov, P.F. and Startsev, G.P.

TITLE: Some Criteria of Applicability of the Theoretical Intensities to the Spectra of Complex Atoms in the Case of LS-Coupling

PERIODICAL: Optika i spektroskopiya, 1959, Vol 8, No 5, pg 874-880 (USSR)

ABSTRACT: The authors deal with the limits of applicability of theoretical atomic spectral intensities, calculated on the assumption of normal LS-coupling and tabulated by Goldberg et al (Ref 1). Since the assumption of normal LS-coupling is only an approximation for complex atoms the authors suggest and illustrate the following two criteria of applicability of the theoretical intensities: (1) the differences between the measured and theoretical values of Lande's g-factor should not exceed 0.030-0.050 (Figs 1 and 2), and (2) departures from the "interval rule" should not, in general, be greater than ~20%. There are 2 figures and 7 references, 2 of which are Soviet, 4 English and 1 German.

SUBMITTED: May 29, 1959

Card 1/1

GRUZDEV, P.F.

Relative oscillator forces in the spectrum of the Co II  
ion. Opt. i spektr. 13 no.3:302-307 S '62. (MIRA 15:9)  
(Cobalt-Spectra)

GRUZDEV, P.F.

Relative oscillator forces in the spectrum of the Ni  
II ion. Opt. i spektr. 13 no. 3:451-453 S '62. (MIRA 15.9)  
(Nickel—Spectra)

PROKOF'EV, V.K.; NIKONOV, Ye.I. GRUZDEV, V.V.; FRISH, V.B.

Oscillator strengths for the FeI spectrum. Izv. Akad. Nauk SSSR  
Obozr. Fiz. 31:281-324. 1964. (USSR)

I. Gosudarstvennyy otsnicheskiy institut (for Nikonova, Gruzdev,  
Frish).

L 27152-66 LWT(m)/LWT(t)/MTT LDR(c) JD

ACC NR: AP6011549

SOURCE CODE: UR/0051/66/020/003/0377/0381

63

602

B

AUTHOR: Gruzdev, P. F.

ORG: none

TITLE: Calculation of the oscillator strengths of multiplets of the sharp and diffuse series in spectra of atoms of aluminum, gallium, indium, and thalliumSOURCE: Optika i spektroskopiya, v.<sup>2</sup>/20, no. 3<sup>2</sup>/1966, 377-381

TOPIC TAGS: oscillator strength, aluminum, gallium, indium, thallium, spectral fine structure, atomic spectrum

ABSTRACT: The authors calculate the oscillator strengths of the multiplets of the sharp series ( $10^2P^2 - m^2S$ ;  $m = n + 1; n + 2\dots$ ) and the diffuse series ( $n^2P^2 - m^2D$ ;  $m = n; n + 1\dots$ ) in the spectra of Al I, Ga I, In I, and Tl I. The oscillator strengths of the multiplets were calculated by the method of A. Burgess and M. J. Seaton (Month. Not. Roy. Astron. Soc. v. 120, 121, 1960), using an expression proposed by Seaton for the normalizing factor (ibid. v. 118, 504, 1958). The calculated oscillator strengths are tabulated and plots are presented for the dependence of the quantum defects of the terms on the energy. For the sharp series, the agreement between the experiments and the calculated values of the oscillator strengths is good. In the case of the diffuse series, the agreement is poorer and reasons for the discrepancies are presented. A new classification is proposed for the  $^2B$  terms of the aluminum atom. A criterion for the applicability of the Coulomb approximation

Card 1/2

UDC: 539.184

L 27162-66

ACC NR: AR6011549

to the calculation of the oscillator strength of multiplets in atomic spectra is presented. This criterion is based on the energy dependence of the quantum defect. The author thanks G. P. Startsev for continuous interest in the work and a discussion of the results. Orlg. art. has: 2 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 07Dec64/ ORIG REF: 002/ OTH REF: 007

Card 2/2 BK

I 41088-66 FWT(1)  
ACC NR: AP6026982

SOURCE CODE: UR/0051/66/021/002/0255/0257

48  
B

AUTHOR: Gruzdev, P. F.; Prokof'yev, V. K.

ORG: none

TITLE: Oscillator strengths of resonance multiplets in atomic and ionic spectra of isoelectronic sequences of the first, second, and third periods

SOURCE: Optika i spektroskopiya, v. 21, no. 2, 1966, 255-257

TOPIC TAGS: oscillator strength, resonance multiple, atomic spectrum, quantum defect, ~~approximation~~, APPROXIMATION

ABSTRACT: Oscillator strengths of resonance multiplets in atomic and ionic spectra of isoelectronic series of the first, second, and third periods of the Mendeleyev table of elements have been computed. Computations were performed in the Coulomb's approximation using Bates and Damgaard's approximation for the  $s \rightarrow p$  transitions and Burgess and Seaton's approximation for  $p \rightarrow s$  transitions. The dependence of quantum defects on the term energy showed that the interaction of configurations is slight or even absent. The oscillator strength of multiplets decreases in  $s \rightarrow p$  transitions, but in  $p \rightarrow s$  transitions the oscillator strength changes only slightly. Orig. art. has: 1 table. [EG]

SUB CODE: 20,12 SUBM DATE: 11Feb66/ ORIG REF: 002/ OTH REF: 006/ ATD PRESS:

500 D

Card 1/1 *b62*

UDC: 539,184

MAKHALOV, V.; (Gorodetskiy rayon, Gor'kovskaya oblast'); GRUZDEV, S.  
(s. Srebnoye, Chermigovskaya oblast')

At the fighting stand. Pozh.-delo 4 no.8'23 Ag '58. (MIRA 11:9)  
(Firemen)

GRUZDEV, V., kandidat biologicheskikh nauk.

Enemies of fields and orchards. IUn.nat. no.2:36-37 My '56.  
(MLRA 9:11)

(Rodentia)

GRUZDEV, V.

Improve the design of four-way waterheaters. Bezop.  
truda v prom. 4 no.8:31 Ag '60. (MIRA 13:8)

1. Starshiy iashener MO kombinata Intaugol'.  
(Waterheaters)

"APPROVED FOR RELEASE: 08/10/2001

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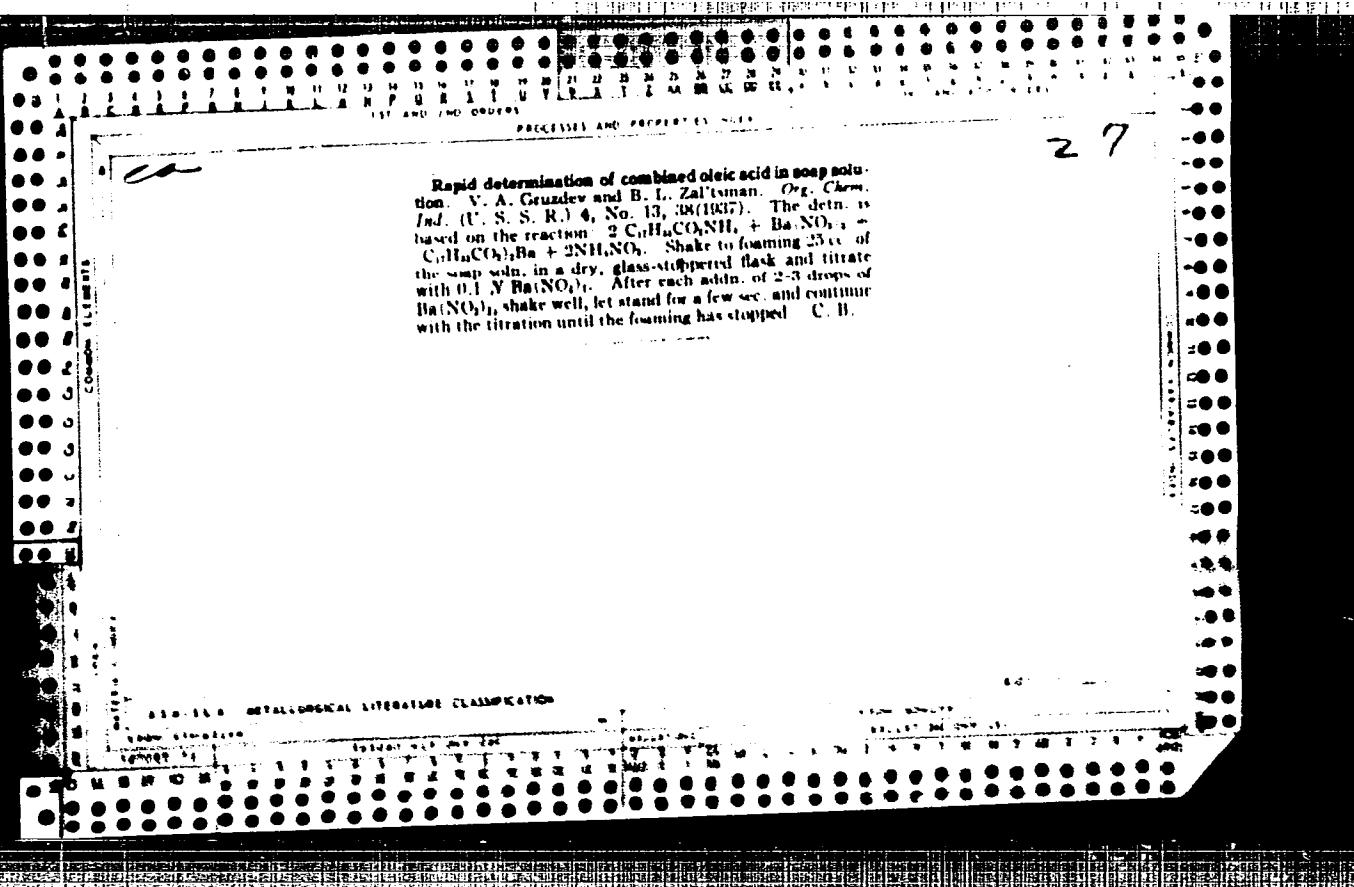
GRUZDEV, V., Izdatelstvo nauk

Brightening birds away. Zacheh.rast.et vrod. I bel. 10 no.4:4-6' 165.  
(MIRA 16:6)

1. Meskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"



GRUZDEV, V.A.

00000000

PHASE I TREASURE ISLAND BIBLIOGRAPHIC REPORT

BOOK

Call No.: TS1542.5.R5, 1952

Authors: RIAUZOV, A.N.; GRUZDEV, V.A.; and ARTE'ENKO, V.A.

Full Title: SYNTHETIC FIBER TECHNOLOGY, 2nd revised and supplemented edition

Transliterated Title: Tekhnologiya iskusstvennykh volokon, vtoroe izdanie  
ispravленное и дополненное.

Publishing Data

Originating Agency: None.

Publishing House: State Scientific-Technical Publishing House of Light Industry  
(GIZ)

Date: 1952

No. pp.: 495

No. copies: 4,000

Editorial Staff

Editor: None.

Technical Editor: None.

Editor-in-Chief: None

Appraiser: Mogilevskii, E.M.

Text Data

Coverage: The second edition has been considerably revised and supplemented to include new materials on synthetic fibers. The work describes in detail the chemical processes and apparatuses for producing viscose silk, but the production of viscose staple fiber, cuprammonium fiber, and acetate is described briefly. Several chapters deal with synthetic fibers in general. Theoretical and chemical considerations of the technological processes are given along various stages of described processes in specific apparatuses. 10 Tables, 142 Diagrams, Appendices.

1A

GRUZINOV, V.A.

CC000001

2/2

Call No.: TSI 42.5.R6, 1962

Full Title: SYNTHETIC FIBER TECHNOLOGY, 2nd revised and supplemented edition

Purpose: A textbook, approved by the Ministry of Light Industry, for technology courses in chemistry departments of textile teknikurs.

Facilities: None.

No. of Russian references: 18

Available: Library of Congress.

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

TAIROV, Sergey Alekseyevich; CHACHKIANI, Andrey Borisovich; GRUZDEV,  
V.A., retsenzent; LIOZNOV, A.G., redaktor; MEDVEDEV, L.A.,  
tekhnicheskiy redaktor.

[Equipping factories producing synthetic textile fibers] Obo-  
rudovanie zavodov iskusstvennykh volokon. Izd.2-oe, perer.  
i dop. Moskva, Gos.nauchno-tekhn. izd-vo Ministerstva tekstil.  
promyshl. SSSR, 1955. 503 p. (MLRA 8:12)  
(Textile fibers, Synthetic)

GRUZDEV . V.A., kandidat tekhnicheskikh nauk.

Machinery for continuous mercerization of pulp. Tekst. prom. 17 no.4:  
58-60 Ap '57. (MLRA 10:4)  
(Mercerization) (Rayon)

GRUZDEV, V.A.

Lumber bundling installation. Les. prom. 35 no.2:20-21 P '57.  
(MLRA 10:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki metalov.

(Lumber--Drying)

KOKKIN, A.A.; BIRGER, G.Ye.; GRUZDEV, V.A.; PAKSEVER, A.B.; TSVETKOVA,  
N.F., red.; SHPAK, Ye.G., tekhn.red.

[Synthetic fibers] Khimicheskie volokna. Moscow, Gos.nauchno-  
tekhn.izd-vo khim.lit-ry, 1959. 50 p. (MIRA 1):2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo  
volokna.  
(Textile fibers, Synthetic)

KLIMENKO, V.S.; ZVEREV, M.P.; GRUZDEV, V.A.; BONDARENKO, V.M.; MICHURINA, G.A.

Synthetic fibers based on isotactic polypropylene. Khim.volok.  
no.4:19-22 '59. (MIRA 13:2)

1. Vesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo  
volokna.

(Textile fibers, Synthetic)  
(Propene)

PAKSHVER, Aleksandr Bernardovich; MEOS, Aleksandr Ivanovich; GRUZDEV,  
V.A., retsenzent; SOKOLOVA, V.Ye., red.; LEVITSKAYA, N.N.,  
tekhn.red.

[Technological calculations in the manufacture of synthetic  
fibers] Tekhnologicheskie raschety v proizvodstve khimi-  
cheskikh volokon. Moskva, Izd-vo nauchno-tekhn.lit-ry RSPSR,  
1960. 346 p. (MIRA 14:4)  
(Textile fibers, Synthetic)

15 5560

87479

S/183/60/000/006/004/005  
B020/B058

AUTHORS: Gruzda, V. A., Klimenkov, V. S., Serkova, L. A.,  
Michurina, G. A., Zhuchkova, N. G., Bondarenko, V. M.

TITLE: Thermooxidative Destruction of Polypropylene and the  
Fiber on Its Basis

PERIODICAL: Khimicheskiye volokna, 1960, No. 6, pp. 19-22

TEXT: The authors wanted to study the influence of the composition of the polypropylene fractions on the thermooxidative destruction and the clarification of the possibilities of stabilizing the polymer in shaping and the fiber. Polypropylene with the following characteristic values was used for the study: molecular weight 200,000, contents of the amorphous fraction 4.3%, contents of the heptane fraction 5.7%, ash contents 0.4%. The fibers were produced according to the process described in Ref. 3. The thermooxidative destruction of the polypropylene was studied between 140 and 240°C, since the fiber is shaped at these temperatures. The data obtained are given in Fig. 1, and show that a period of activation of the process exists, whose value decreases with rising temperature, and whose

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87479

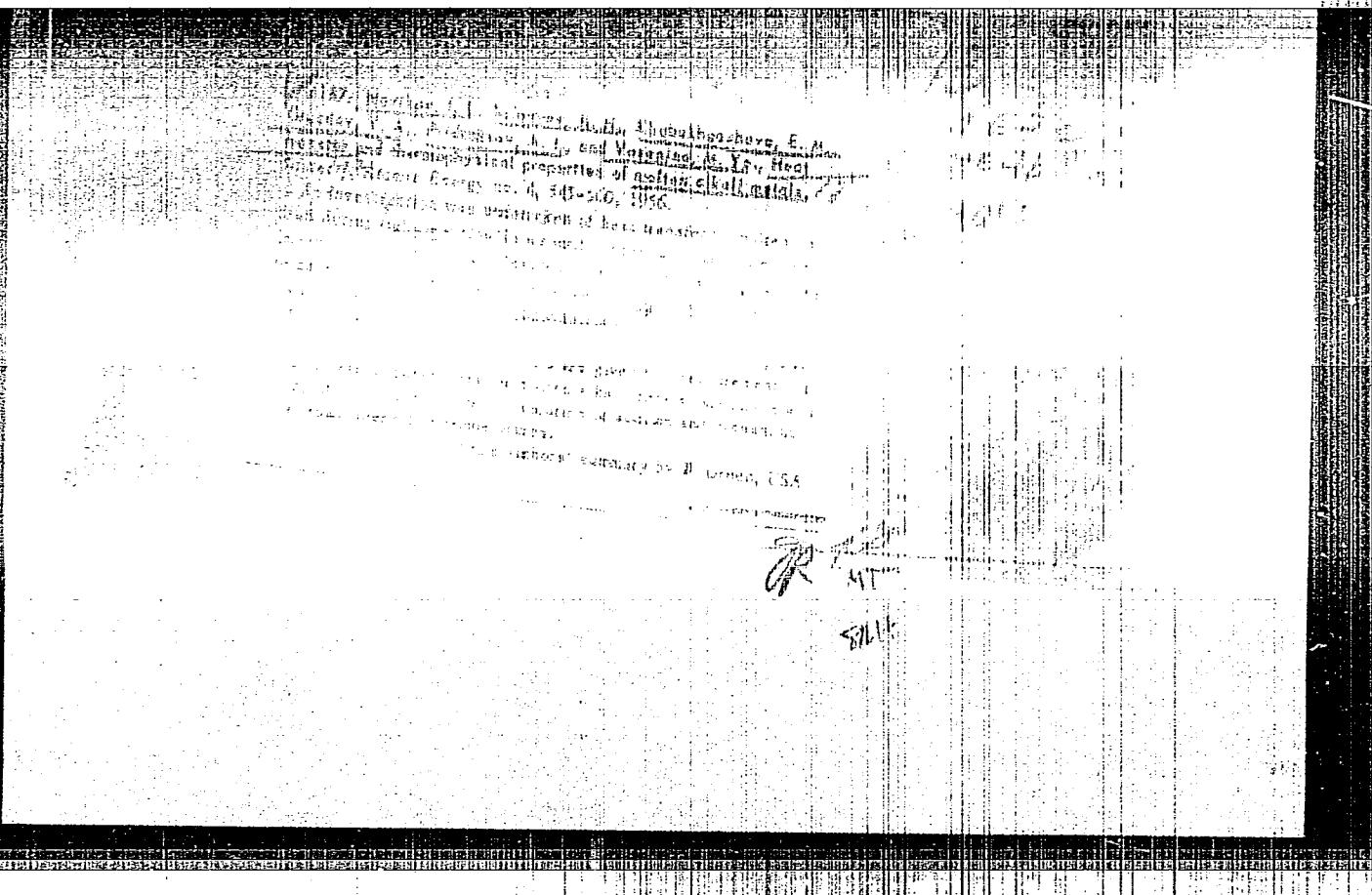
Thermooxidative Destruction of Polypropylene S/183/60/000/006/004/005  
and the Fiber on Its Basis B020/B058

occurrence depends on the accumulation of radicals. The dependence of the intrinsic viscosity of the polypropylene heated to 200°C (Fig. 2) and 140°C (Fig. 3) on the composition of the fractions is traced graphically. It can be seen from Fig. 2 that the change of the composition of the fraction at temperatures above the melting point of the polymer does not cause any change of the intrinsic viscosity during heating, and thus neither influences the thermooxidative destruction. It can be seen from Fig. 3 that the introduction of 15% of the amorphous polypropylene fraction reduces the activation period to about one-twelfth. Fig. 4 shows the change of the intrinsic viscosity of the polymer in dependence on the antioxidants used. The most effective antioxidants at 200°C are Neozone D and Ionol. However, the activity of these antioxidants greatly decreases when increasing the temperature to 240°C (Table 1). The effect of various antioxidants on the thermooxidative destruction of polypropylene is mentioned in Table 2, from which it can be seen that the addition of 0.1% Ionol and 0.25% Neozone D is sufficient for the stabilization of polypropylene at 200°C. Fig. 5 shows the dependence of intrinsic viscosity and strength of the fiber on the duration of heating and the polymer composition. Table 3 gives data on the effect of the stabilizer used and the duration of heating on the thermooxidative stability of the fiber, which show that fibers with 1% Neozone D

Card 2/3

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6



APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

GRUZDEV, V.A.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1518  
AUTHOR NOVIKOV, I.I., SOLOVEV, A.N., CHABACHPASEVA, E.M., GRUZDEV, V.A.,  
PRIDANZEV, A.I., VASENINA, M.JA.  
TITLE The Heat Transfer and the Thermophysical Properties of Fused  
Alkali Metals.  
PERIODICAL Atomnaja Energija, 1, fasc. 4, 92-106 (1956)  
Issued: 19.10.1956

From 1950 to 1955 the authors carried out experimental research work concerning the thermophysical parameters and the heat transfer of fused metals. The present article deals with the most important results obtained in the course of this research work.

Heat transfer: The experimental apparatus consisted of a heat commutator, cooler, pump, consumption meter, and registering valve. The individual components and their functions are discussed. In a series of experiments the heat transfer between liquid sodium and the copper heating surface is investigated. In the course of a second series of experiments the inner surface of the same heat commutator was coated with a nickel layer of about  $10 \mu$  thickness. Experiments were carried out at a velocity of flow of the liquid sodium amounting to from 0,6 to 11 m/sec and at temperatures of from 140 to 340° C. On this occasion the dimensionless criteria characterizing heat transfer were modified within the following limits:

$Re = 1,5 \cdot 10^4$  to  $2,1 \cdot 10^5$ ,  $Pr = (5 \text{ to } 9) \cdot 10^{-3}$ ,  $Pe = 100$  to 1400.

The viscosity of Na, K, Li and of a eutectic mixture of Na and K (25% Na +

Atomnaja Energija, 1, fasc.4, 92-106 (1956) CARD 2 / 2

PA - 1518

75% K) was measured by the method of damped torsion oscillations of a small pail filled with the fused metal. The experiments, which were carried out under different conditions, yielded results which agreed well with one another and which are shown in diagrams. In the case of all metals investigated,  $\gamma$  (= viscosity?) diminishes at first rapidly and later more slowly.

The temperature conductivity of alkali metals: The metal is investigated in a vertical thin tube of stainless steel the lower end of which is closed by welding. The carrying out of experiments is discussed in detail on the basis of drawings. The temperature conductivity coefficient of K diminishes at first sharply and later more slowly as temperature rises. The temperature conductivity coefficient of Na grows from 100 to 150°, after which it decreases monotonously with a further increase of temperature, but the temperature conductivity coefficient of the alloy mentioned increases monotonously.

The density of the fused alkali metals was measured in a simple manner and with sufficient accuracy by means of a body of known volume which was submerged in the liquid to be investigated. All measuring values are on a straight line with an accuracy of 0,4%. The density of Na and K decreases linearly with rising temperature.

INSTITUTION:

AGRANOVSKIY, I.; ARANOVICH, B.; BELYAYEVA, V.; BOL'SHAKOV, A.; GRUZDEV,  
V.; DICH, S.; ZELENTSOV, I.; KONKIN, A.; LEVIT, R.; MIKHAYLOV,  
N.; MOGILEVSKIY, Ye.; SERKOV, A.; SMELKOV, G.; SNETKOV, N.;  
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L 43146-68 EWP(1)/EWT(m)/EWP(t)/ETI IJ(c) JD  
ACC NR: AP6021209 (N) SOURCE CODE: UR/0294/66/004/003/0328/0335

AUTHOR: Rovinskiy, R. Ye. (Moscow); Belousova, L. Ye. (Moscow); Gruzdev, V. A. (Moscow)

ORG: none

TITLE: Geometry of electrodeless discharge induced in inert gases

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 3, 1966, 328-335

TOPIC TAGS: gas discharge, inert gas

ABSTRACT: The geometric parameters of electrodeless discharges are studied as a function of ion mass (argon and xenon), pressure ( $10^{-2}$  mm Hg to atmospheric), the method of wall cooling (water and air) and discharge (at 12 Mc) power (2 to 14 kw). The discharge dimensions were obtained at any given time using a framing camera to provide the microdensitometer traces. The set of experimental data indicate that thermal conductivity is the basic mechanism in the formation of the discharge boundary in the high pressure regime. Analytical estimates are performed to substantiate this contention and it is shown that there is agreement with the experiment where, radial thermal conduction dominates over the end losses of the cylindrical discharge column. Energy transfer from the generator to the discharge column had a different character at low pressures where the diffusion theory described by H. U. Eckert (J. Appl. Phys., 33,

Card 1/2

UDC: 537.523.537.525.661.939

"APPROVED FOR RELEASE: 08/10/2001

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I-45136-56  
ACC NR: AP6021209

No. 9, 2780, 1962) appears to be applicable, as compared to the high pressure discharge which had properties of an arc discharge. The intermediate range is the most difficult one to interpret since it seems to bridge the characteristics of high and low pressure regimes. Orig. art. has: 10 formulas, 5 figures.

SUB CODE: 20/ SUBM DATE: 26Jan65/ ORIG REF: 005/ OTH REF: 003

Card 2/2 MLP

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617120017-6"

ACC NR:

AP6008825

SOURCE CODE: UR/0294/66/004/001/0035/0039

AUTHOR: Rovinskiy, R. Ye. (Moscow); Gruzdev, V. A. / Shirokova, I. P. (Moscow)

ORG: None

TITLE: The energy balance of a steady-state induced discharge

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 1, 1966, 35-39

TOPIC TAGS: gas discharge, argon, xenon

ABSTRACT: The authors describe an experimental investigation of a discharge in argon and xenon, induced in closed flasks. A study is made of the energy balance of a steady-state discharge in the pressure range from 1 to 750 mm Hg. The authors measured the magnitude of thermal and radiant losses of the discharge depending on gas pressure and the power of the discharge. It is found that the thermal and the radiant losses in the case of xenon are several times higher than those in the case of argon. At atmospheric pressure, the proportion of radiant losses in argon amounts to about 15% and drops substantially with decreasing pressure. The radiant losses in both xenon and argon as a function of pressure with a constant power in the discharge, are found to increase sharply at first, then, starting from about 200 to 300 mm Hg, to increase at a slower rate. It is asserted that the increase in the radiant power will, in some degree, continue even at pressures above atmospheric. Orig. art. has: 6 figures and 3 formulas.

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UDC: 537.523.637—96.633.9.07

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SUB CODE: 20 /SUBM DATE: 26Jan65 / ORIG REF: 001

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CIA-RDP86-00513R000617120017-6"

GRUZDEV, V.F., kandidat meditsinskikh nauk (Leningrad)

Treatment of acne conglobata. Vest.ven. i derm. 30 no.2:45 Mr-Apr '56.  
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GRUZDEV, V.F. (Leningrad)

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contribution of Ivan Vasil'evich Protasov  
(PROTASOV, IVAN VASIL'EVICH, 1768-1805)

GRUZDEV, V.F., dots (Leningrad)

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(NUMISMATICS,  
med. in numismatics (Rus))